EXECUTIVE SUMMARY

- Young Minos issues:

    - Deployed SCP/PPM/PMT authorized 50 TB Bluearc in /minos/data(2)

    - Up to 3 PB of new Dcache disk coming FY13 – learn to use DCache

    - No Bluearc data overloads since Apr 17 data/app separation

- SCP/PPM/PMT computing review Jan

    - https://sharepoint.fnal.gov/project/sppm/SitePages/Home.aspx

- SLF5 reco certified, have SLF4 only for some Minerva MC

- Deployed minos-nearline for DQM, management, calibration

- Retiring most AFS data areas, pending DQM on minos-nearline

- Got needed ND reco speedup, see Reco Group report

- Minos-beamdata is retired, using IFBEAM database.

    - See reports from Joseph and Michelle

GRID

- CPN – 14.1 million locks served to Minos (4. M NovA, 15 M MNV)\

    - setup cpn -z /grid/fermiapp/products/common/db

- IFDH - New layer on top of cpn also supports Gridftp, dd, etc.

    - dd is much faster than cp on some systems (blocksize issue)

- jobsub script can be used by Minos/Minerva/NOvA/et.al.

    - setup jobsub_tools -z /grid/fermiapp/products/common/db

- Should start using the Bluearc GridFTP server for MC import.

- Local shared file support - CD deploying CVMFS, testing with NOvA at SMU and Harvard

- DOE grid certs moved to OSG

    - Last renewals in 2013 Mar, will expire in 1 year

    - Get OSG certs from https://oim.grid.iu.edu

    - Will have to re-register with DocDB , this works now.

DATA handling - SAM

- SAMWEB is deployed for Minos

    - A web services SAM server, command line and URL access

    - Examples soon https://cdcvs.fnal.gov/redmine/projects/minos/wiki/SAM-LIST

- Preparing to move SAM servers from minos-sam04 to ifsamgpvm01

    - dev instance moved from minos-sam02 to ifsamdev

DATA handling - Bluearc

- Bluearc overloads much lighter since Apr 17 separation of App and Data

    - Easter app slowdown due to 5000 job minerva lock backlog

    - We have corrected cpn to prevent this in future

    - Minerva will run fewer I/O intense jobs

    - Created max10 etc Condor groups to let such jobs run safely

- Bluearc head crashes/failovers March 13 and 19

    - 05/13 due to Microboone local batch, 05/19 unknown -investigating

    - Had to remount some volumes to regain r/w access

    - But no user file access slowdowns !

- Deployed 50 TB /minos/data2 – moving individual /minos/data/users there

- /minos/app data cleanout/purge

    - moving user data files to /minos/data

    - Will imposed quotas soon

Enstore/DCache

- Open Hardware disk requested next year - no progress – CD not interested

    - Deployed cost under $100/TB

    - https://cdcvs.fnal.gov/redmine/projects/minos/wiki/DATAPLANOPEN

- Dcache NFS 4.1 direct file access – requires SLF 6.4

    - We will ask for a minos-slf6 VM for testing

- ENSTORE SFA (Small File Aggregation) is deployed

    - We should use this to archive mcin_data and stage areas

- CD deploying over $600K of new Dcache pools (3 PB ?) for IF in FY13

    - in spite of spending freeze

REX/ELC

- The REX supported jobsub script does work for us

    - Will start using for production, make plan to retire minos_jobsub

- IF Beam monitoring deployed for NOvA era beam monitoring

    - Olga Terlyga has moved to the Security group

    - Margerita Vittone has implemented JASish displays

        - http://rexdb02.fnal.gov:8082/mvi/plots_refresh.html

    - Xinchun Tian has JAS reading data from IFRONT database

- FIFE all day workshop Tue Jun 3, Xinchun will attend

    - https://sharepoint.fnal.gov/org/scd/fife/fife_stakeholders/SitePages/Home.aspx

    - https://indico.fnal.gov/conferenceDisplay.py?confId=6895

- Gave feedback on Batch Requrements

    - https://cdcvs.fnal.gov/redmine/projects/condor/wiki/MNSBATREQ

- MOU draft https://cdcvs.fnal.gov/redmine/projects/admin/wiki/MNSCOMPMOU

- SCP/PPM/PMT review https://cdcvs.fnal.gov/redmine/projects/admin/wiki/PORTFOLIO

GPCF

minos-slf4 = minosgpvm02 runs SLF 4.7 32 bit kernel

- Had to extend exemption for Minerva MC.

- Could go away at any moment

Will ask for minos-slf6 for NFS 4.1 Dcache direct access tests

Minos Servers

- SLF5 migration – Complete

    - Reco group certified reco built at SLF5. Thanks !

Control Room / DAQ

- System Management

    - All new servers are in use, new monitors are ordered

- AFS – (used only on old minos-om)

    - DataValidation – moving to minos-nearline this week

    - TimeGoblin – need to have moved to minos-nearline

- FPCONSOLE

    - The system labeled minos-dcs will be replaced and move underground

    - Access the screen via VNC (rdesktop)

    - Will remove the DAQ/DCS network from WH12 for security

- ECL – will migrate all forms to the new editable format

    - Adding conditional fields and centered notes

- minos-om web server retirement

    - Static pages have moved to nusoft.fnal.gov/minos/controlroom/...

    - cgi (FLUFFY) will move to new CD server soon-ish